```
=> d his ful

     (FILE 'HOME' ENTERED AT 10:48:22 ON 03 NOV 2005)

     FILE 'HCAPLUS' ENTERED AT 10:48:34 ON 03 NOV 2005
                E ROBOTTI KARLA M/AU
L1           16 SEA ABB=ON  ("ROBOTTI KARLA"/AU OR "ROBOTTI KARLA M"/AU OR
                "ROBOTTI KARLA MARIE"/AU)
L2            1 SEA ABB=ON  L1 AND ?GLYCOSYLAT?
                SELECT RN L2 1-1

     FILE 'REGISTRY' ENTERED AT 10:49:35 ON 03 NOV 2005
L3            1 SEA ABB=ON  107-95-9/BI

     FILE 'HCAPLUS' ENTERED AT 10:49:50 ON 03 NOV 2005
L4            1 SEA ABB=ON  L2 AND L3
L5            3 SEA ABB=ON  L1 AND ?NUCLEOPHIL?
                SELECT RN L5 1-3

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L6           30 SEA ABB=ON  (10256-43-6/BI OR 108-77-0/BI OR 17616-24-9/BI OR
                2002-24-6/BI OR 2904-52-1/BI OR 3440-19-5/BI OR 557-66-4/BI OR
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                OR 13981-73-2/BI OR 14158-31-7/BI OR 14380-59-7/BI OR 14390-96-
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                 OR 7782-39-0/BI)

     FILE 'HCAPLUS' ENTERED AT 10:51:52 ON 03 NOV 2005
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L8              ANALYZE L7 1-3 CT :      23 TERMS

     FILE 'REGISTRY' ENTERED AT 10:57:30 ON 03 NOV 2005
L9              STR                          "
L10           4 SEA SSS SAM L9
L11         131 SEA SSS FUL L9      see "dgne stat," attached. for structure

     FILE 'HCAPLUS' ENTERED AT 11:04:44 ON 03 NOV 2005
L12          29 SEA ABB=ON  L11
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L16           7 SEA ABB=ON  L14 AND (?RESIN? OR ?SOLID?(W)?SUPPORT?)
L17           0 SEA ABB=ON  L14 AND ?SEPARAT?(4A)?GLYCOSYLAT?
L18           0 SEA ABB=ON  L14 AND ?SEPARAT?(6A)?PROTEIN?

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L19           6 SEA ABB=ON  L16 AND (PRD<20031031 OR PD<20031031)  6 cits from CA Plus

     FILE 'USPATFULL' ENTERED AT 11:07:47 ON 03 NOV 2005
L20           8 SEA ABB=ON  L16 AND (PRD<20031031 OR PD<20031031)
                                                  8 cits from USPatFull
     FILE HOME

     FILE HCAPLUS

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     held by the publishers listed in the PUBLISHER (PB) field (available
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FILE COVERS 1907 - 3 Nov 2005 VOL 143 ISS 19
FILE LAST UPDATED: 2 Nov 2005 (20051102/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE REGISTRY
Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 1 NOV 2005 HIGHEST RN 866526-24-1
DICTIONARY FILE UPDATES: 1 NOV 2005 HIGHEST RN 866526-24-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
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Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

FILE USPATFULL
FILE COVERS 1971 TO PATENT PUBLICATION DATE: 1 Nov 2005 (20051101/PD)
FILE LAST UPDATED: 1 Nov 2005 (20051101/ED)
HIGHEST GRANTED PATENT NUMBER: US6961956
HIGHEST APPLICATION PUBLICATION NUMBER: US2005241041
CA INDEXING IS CURRENT THROUGH 1 Nov 2005 (20051101/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 1 Nov 2005 (20051101/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<

>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L9              STR
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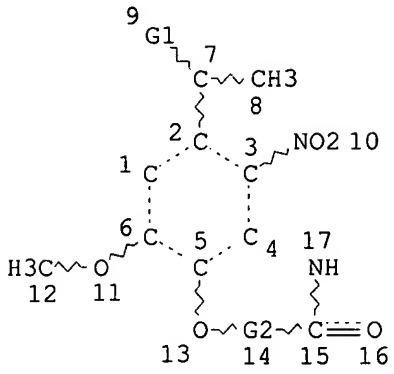


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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

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RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  17

STEREO ATTRIBUTES: NONE
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L12           29 SEA FILE=HCAPLUS ABB=ON  L11
L14           15 SEA FILE=HCAPLUS ABB=ON  L12 AND ?LINK?
L16            7 SEA FILE=HCAPLUS ABB=ON  L14 AND (?RESIN? OR ?SOLID?(W)?SUPPORT
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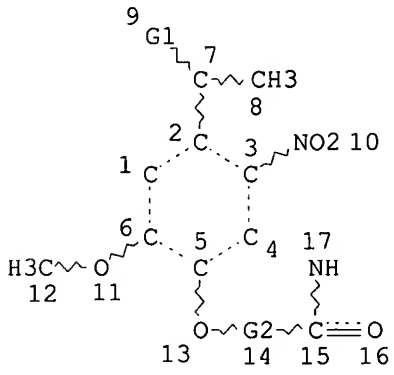


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RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  17

STEREO ATTRIBUTES: NONE
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L14           15 SEA FILE=HCAPLUS ABB=ON  L12 AND ?LINK?
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                 ?)
L20            8 SEA FILE=USPATFULL ABB=ON  L16 AND (PRD<20031031 OR PD<20031031
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=> d ibib abs hitstr l19 1-6

L19 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:737883 HCAPLUS
DOCUMENT NUMBER: 137:385101
TITLE: Evaluation of a two-stage screening procedure in the combinatorial search for serine protease-like activity
AUTHOR(S): Madder, Annemieke; Li, Liu; De Muynck, Hilde; Farcy, Nadia; Van Haver, Dirk; Fant, Franky; Vanhoenacker, Gerd; Sandra, Pat; Davis, Anthony P.; De Clercq, Pierre J.
CORPORATE SOURCE: Laboratory of Organic Synthesis, Department of Organic Chemistry, Ghent University, Ghent, B-9000, Belg.
SOURCE: Journal of Combinatorial Chemistry (**2002**), 4(6), 552-562
CODEN: JCCHFF; ISSN: 1520-4766
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:385101

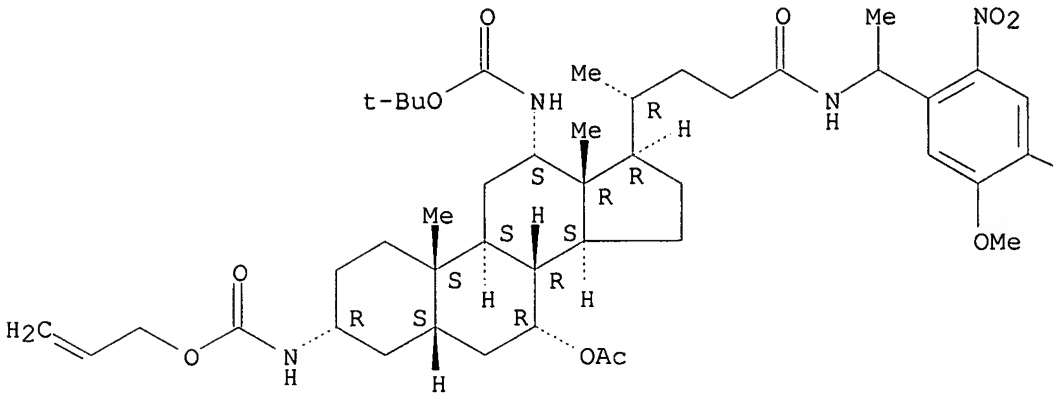
AB A series of peptidosteroid derivs. containing two independent peptide chains in which Ser and His are incorporated were synthesized by solid-phase peptide synthesis. The activity of the different compds. in the hydrolysis of the activated substrate NF31 was assessed in a stepwise fashion. First, the different **resin**-bound peptidyl cholic acid derivs. were individually assayed for serine esterification in the absence of water. The use of a colored substrate allowed for a visual identification of the most active compds. Through the inclusion of control substances, the involvement of histidine in the mechanism for serine acylation was shown. Second, the hydrolysis and methanolysis of the different acylated peptidosteroid derivs. were evaluated using UV spectroscopy, again indicating the involvement of histidine. The feasibility of applying the above procedures in a combinatorial context was proven via the screening of artificial libraries, created by mixing the different **resin**-bound peptidosteroid compds. In this respect, the use of a photocleavable **linker** allowed for the unambiguous structural characterization of the selected members via application of single-bead electrospray tandem mass spectrometry.

IT **476167-40-5DP, resin**-bound
RL: CRT (Combinatorial reactant); RCT (Reactant); SPN (Synthetic preparation); CMBI (Combinatorial study); PREP (Preparation); RACT (Reactant or reagent)
(solid phase peptide synthesis of peptidosteroids and screening procedure in combinatorial search for serine protease-like activity)

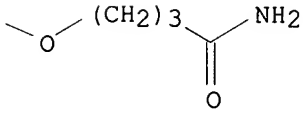
RN 476167-40-5 HCAPLUS
CN Carbamic acid, [(3α,5β,7α,12α)-7-(acetyloxy)-24-[[1-[4-(4-amino-4-oxobutoxy)-5-methoxy-2-nitrobenzoyl]ethyl]amino]-24-oxocholane-3,12-diyl]bis-, 12-(1,1-dimethylethyl) 3-(2-propenyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

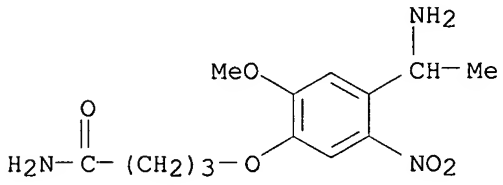
PAGE 1-A



PAGE 1-B



IT **476167-39-2DP, resin**-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid phase peptide synthesis of peptidosteroids and screening procedure in combinatorial search for serine protease-like activity)
RN 476167-39-2 HCAPLUS
CN Butanamide, 4-[4-(1-aminoethyl)-2-methoxy-5-nitrophenoxy]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:738889 HCAPLUS
DOCUMENT NUMBER: 133:296036

TITLE: Process for the solid phase synthesis of aldehyde, ketone, oxime, amine, hydroxamic acid, and α,β-unsaturated carboxylic acid and aldehyde compounds
INVENTOR(S): Salvino, Joseph M.; Morton, George C.; Mason, Helen J.; Labaudiniere, Richard F.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 43 pp., Cont.-in-part of Appl. No. PCT/US97/23920.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6133409	A	20001017	US 1998-103872	19980624 <--
WO 9724117	A1	19970710	WO 1997-US264	19970102 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6057369	A	20000502	US 1997-928943	19970912 <--
WO 9829376	A1	19980709	WO 1997-US23920	19971217 <--
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ZA 9711453	A	19980914	ZA 1997-11453	19971219 <--
CA 2335511	AA	19991229	CA 1999-2335511	19990623 <--
WO 9967192	A2	19991229	WO 1999-US14251	19990623 <--
WO 9967192	A3	20000406		
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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JP 2002518553	T2	20020625	JP 2000-555848	19990623 <--
EP 1359136	A2	20031105	EP 2003-76717	19990623 <--
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AU 9947127	A1	20000110		
US 6392010	B1	20020521	US 1999-469829	19991222 <--

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BG 105166	A	20010731	BG 2001-105166	20010118 <--
US 2002183558	A1	20021205	US 2002-107771	20020327 <--
US 6710208	B2	20040323		

PRIORITY APPLN. INFO.:

US 1996-32453P	P	19961219 <--
US 1996-33881P	P	19961224 <--
WO 1997-US264	A1	19970102 <--
US 1997-928943	A2	19970912 <--
WO 1997-US23920	A2	19971217 <--
US 1996-9484P	P	19960102 <--
AU 1998-57199	A3	19971217 <--
US 1998-103872	A	19980624 <--
EP 1999-930627	A3	19990623 <--
WO 1999-US14251	W	19990623 <--
US 1999-469829	A3	19991222 <--

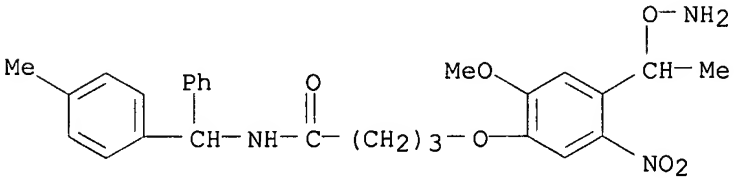
OTHER SOURCE(S): CASREACT 133:296036; MARPAT 133:296036

AB For example, Wang **resin** was condensed with N-hydroxyphthalimide and the product hydrazinolized to give an O-amino **resin** which was amidated by 4,3-BrMeC6H3CO2H to give RONHCOC6H4MeBr-3,4 (R = **resin**). The latter was N-alkylated by 4-ClC6H4CH2Br and the product treated with acid to give 4-ClC6H4N(OH)COC6H4MeBr-3,4.

IT **182297-44-5D**, **resin** bound
RL: RCT (Reactant); RACT (Reactant or reagent)
(process for the solid phase synthesis of aldehyde, ketone, oxime, amine, hydroxamic acid, and α,β-unsatd. carboxylic acid and aldehyde compds.)

RN 182297-44-5 HCAPLUS

CN Butanamide, 4-[4-[1-(aminooxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-[(4-methylphenyl)phenylmethyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:819328 HCAPLUS
DOCUMENT NUMBER: 132:63782
TITLE: Solid phase synthesis of carbonyl compounds
INVENTOR(S): Salvino, Joseph M.; Morton, George C.; Mason, Helen J.; Labaudiniere, Richard F.
PATENT ASSIGNEE(S): Rhone-Poulenc Rorer Pharmaceuticals Inc., USA
SOURCE: PCT Int. Appl., 139 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 8
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9967192	A2	19991229	WO 1999-US14251	19990623 <--

WO 9967192 A3 20000406
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

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US 2002183558	A1	20021205	US 2002-107771	20020327 <--
US 6710208	B2	20040323		

PRIORITY APPLN. INFO.:	US 1998-103872	A2	19980624 <--
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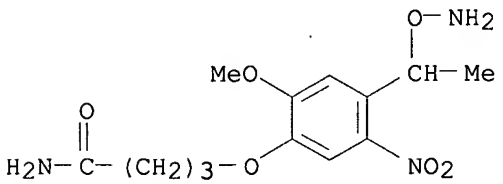
	US 1997-928943	A2	19970912 <--
	AU 1998-57199	A3	19971217 <--
	WO 1997-US23920	A2	19971217 <--
	WO 1999-US14251	W	19990623 <--
	US 1999-469829	A3	19991222 <--

OTHER SOURCE(S): CASREACT 132:63782; MARPAT 132:63782

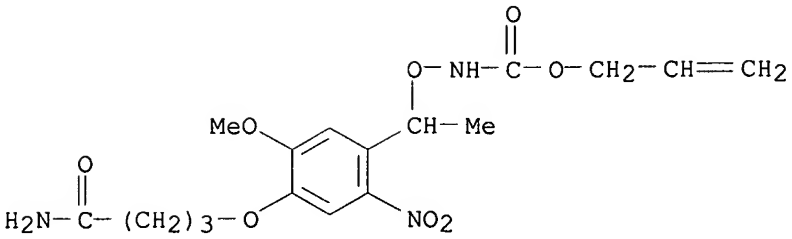
AB Title compds. were prepared by condensation of RLONRbCORa (R = **resin** ; L = bond or **linking** group; Ra,Rb = aliphatic group, aryl) with RcM (M = metal cation; Rc = aliphatic or aryl anion). Thus, 4-(RO)C6H4CH2ON(CH2C6H4Br-4)CO(CH2)3Ph (prepn given) was treated with LiAlH3OMe to give Ph(CH2)CHO.

IT **253167-16-7DP, resin** bound **253167-24-7DP, resin** bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid phase synthesis of carbonyl compds.)

RN 253167-16-7 HCAPLUS
CN Butanamide, 4-[4-[1-(aminooxy)ethyl]-2-methoxy-5-nitrophenoxy]- (9CI) (CA INDEX NAME)



RN 253167-24-7 HCAPLUS
CN Carbamic acid, [1-[4-(4-amino-4-oxobutoxy)-5-methoxy-2-nitrophenyl]ethoxy]-, 2-propenyl ester (9CI) (CA INDEX NAME)



L19 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:218627 HCAPLUS
DOCUMENT NUMBER: 126:277102
TITLE: Model Studies for New o-Nitrobenzyl Photolabile **Linkers**: Substituent Effects on the Rates of Photochemical Cleavage
AUTHOR(S): Holmes, Christopher P.
CORPORATE SOURCE: Affymax Research Institute, Palo Alto, CA, 94304, USA
SOURCE: Journal of Organic Chemistry (**1997**), 62(8), 2370-2380
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 126:277102
GI

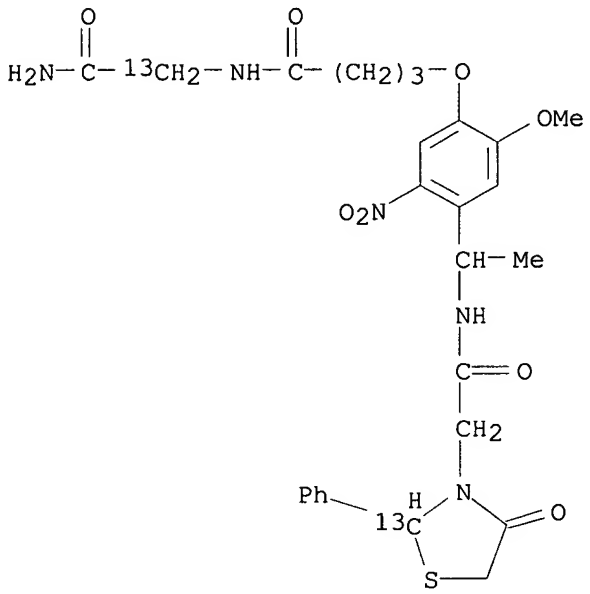
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Both a model phenacyl and o-nitrobenzyl photolabile **linker** from the literature along with four new o-nitrobenzyl **linkers** were prepared and the kinetics of their photolytic cleavage examined in solution The **linkers** were prepared by amidation of the carboxylic acid anchoring tether with benzylamine, and the cleavable benzylic substituent was chosen to be either acetic acid or acetamide. Irradiation of the **linkers** in four solvents [methanol, p-dioxane, and aqueous buffer (±)-dithiothreitol] at 365 nm and anal. via HPLC afforded kinetic rates of cleavage suitable for comparative purposes. The phenacyl **linker** was found to cleave slowly under aqueous conditions with no detectable cleavage being observed in the organic solvents. Known o-nitrobenzyl **linker** I showed modest rates of cleavage in aqueous and organic solvents. Incorporation of two alkoxy groups in the benzene ring to generate the veratryl-based **linker** II increased the rate of cleavage dramatically, and introduction of an addnl. benzylic Me group (III) increased the rate of cleavage by roughly 5 fold. Increasing the length of the anchoring carboxylic acid tether from acetic to butyric acid (IV) improved the cleavage kinetics modestly in organic media and slightly diminished the rates in water. The amide **linker** V cleaved from 3 to 7 times faster than the corresponding ester **linkage** IV. An amide-generating **linker** VI was prepared, and its performance to generate photolabile **solid supports** was briefly examined The stability of the **linker** and subsequent cleavage upon photolysis from the support of an isotopically enriched 4-thiazolidinone

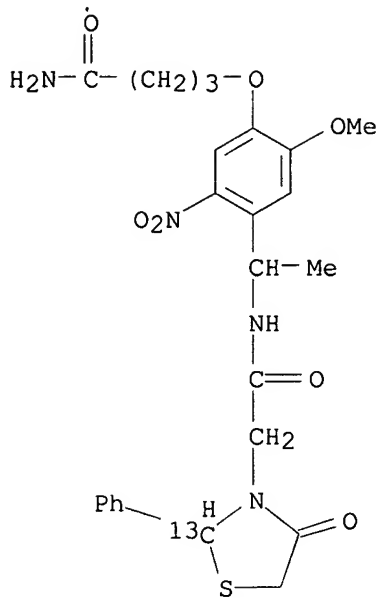
was demonstrated by gel phase 13C NMR.

IT **175453-21-1DP**, TantaGel-S tied **188891-24-9DP**, 4-thiazolidinone-**photolinker**-glycine-tied
RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(models for o-nitrobenzyl photolabile **linkers** and substituent effects on rates of photochem. cleavage)

RN 175453-21-1 HCAPLUS
CN 3-Thiazolidine-2-13C-acetamide, N-[1-[4-[4-[(2-amino-2-oxoethyl-1-13C)amino]-4-oxobutoxy]-5-methoxy-2-nitrophenyl]ethyl]-4-oxo-2-phenyl- (9CI) (CA INDEX NAME)

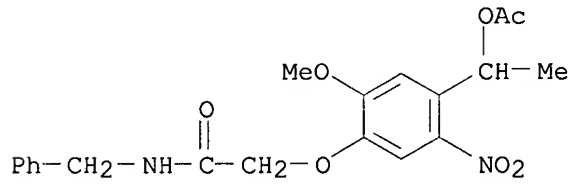


RN 188891-24-9 HCAPLUS
CN 3-Thiazolidine-2-13C-acetamide, N-[1-[4-(4-amino-4-oxobutoxy)-5-methoxy-2-nitrophenyl]ethyl]-4-oxo-2-phenyl- (9CI) (CA INDEX NAME)

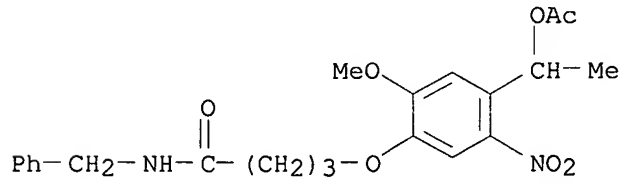


IT **175281-73-9P 175281-74-0P 188891-11-4P**
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(models for o-nitrobenzyl photolabile **linkers** and substituent effects on rates of photochem. cleavage)

RN 175281-73-9 HCAPLUS
CN Acetamide, 2-[4-[1-(acetyloxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 175281-74-0 HCAPLUS
CN Butanamide, 4-[4-[1-(acetyloxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 188891-11-4 HCAPLUS
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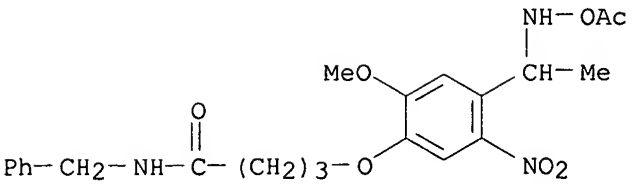
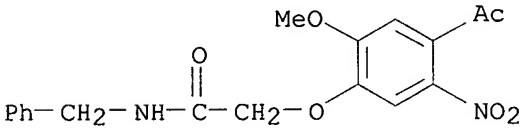
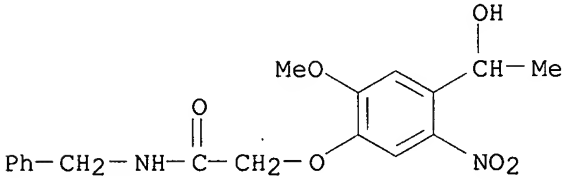


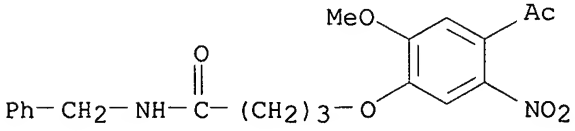
IT **188891-15-8P 188891-17-0P 188891-19-2P**
188891-20-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(models for o-nitrobenzyl photolabile **linkers** and substituent effects on rates of photochem. cleavage)
RN 188891-15-8 HCAPLUS
CN Acetamide, 2-(4-acetyl-2-methoxy-5-nitrophenoxy)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 188891-17-0 HCAPLUS
CN Acetamide, 2-[4-(1-hydroxyethyl)-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 188891-19-2 HCAPLUS
CN Butanamide, 4-(4-acetyl-2-methoxy-5-nitrophenoxy)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



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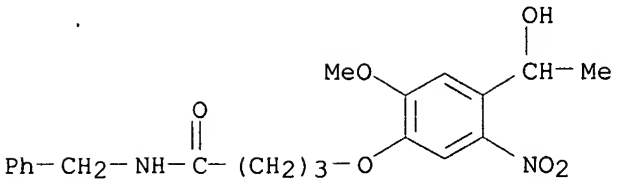

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:237462 HCAPLUS
DOCUMENT NUMBER: 124:290276
TITLE: Solid phase synthesis of thiazolidinones, metathiazanones, and their derivatives as peptidomimetics.
INVENTOR(S): Holmes, Christopher P.
PATENT ASSIGNEE(S): Affymax Technologies N.V., Neth.
SOURCE: PCT Int. Appl., 117 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9600148	A1	19960104	WO 1995-US7988	19950623 <--
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5549974	A	19960827	US 1994-265090	19940623 <--
AU 9529485	A1	19960119	AU 1995-29485	19950623 <--
PRIORITY APPLN. INFO.:			US 1994-265090	A2 19940623 <--
			WO 1995-US7988	W 19950623 <--

OTHER SOURCE(S): MARPAT 124:290276
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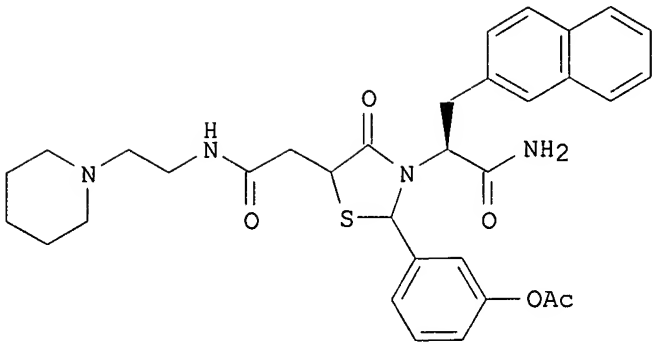


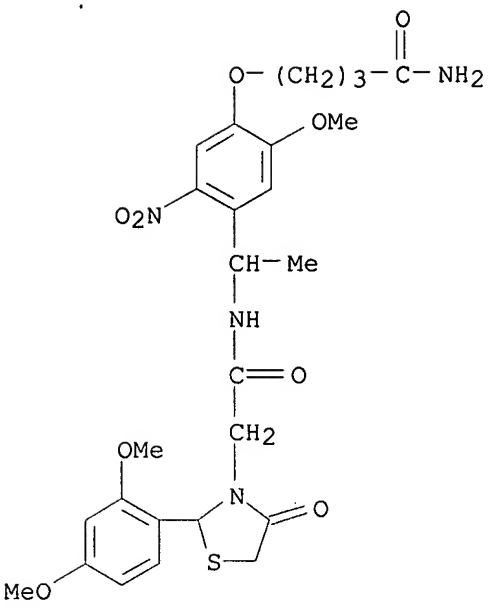
I

AB Title compds. were prepared by (1) providing RNH2 (R = alkyl, alkoxy, amino, aryl, aryloxy, heteroaryl, aralkyl) on the surface of a **solid support**, (2) treating the amine with R3R4CO (R3 = H, R4 = alkyl, aryl, heteroaryl, aralkyl) and with HSCR5R6(CR7R8)nCO2H (R5-R8 = H, alkyl, alkoxy, aryl, aryloxy, heteroaryl, CO2H, carboxyalkyl, carboxyaryl, aralkyl; n = 0, 1) under conditions that cyclize the components. A library of thiazolidinones was prepared using TentaGel S **resin** functionalized with a **photolinker**, FMOC-protected amino acids, aldehydes, and various amines and hydrazides and tested for κ-opioid activity. Deconvolution of the library led to thiazolidinone (I), whose isomers showed IC50 = 45 and 75 nM in an assay against the κ-opioid receptor using 3H-diprenorphine.

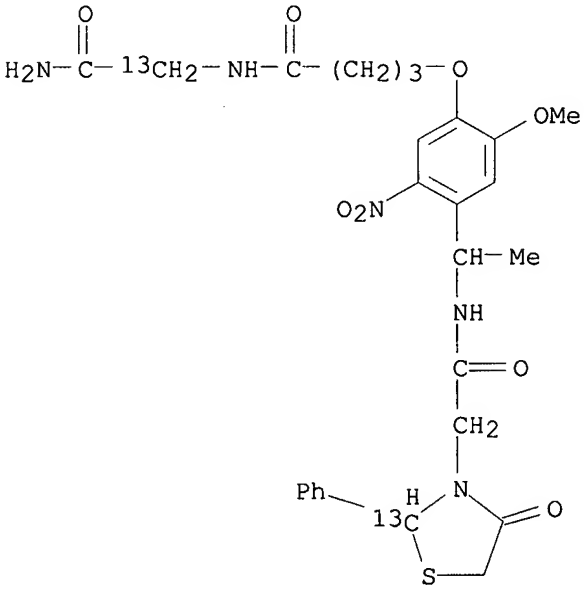
IT **159645-99-5DP, resin**-bound **175453-21-1DP**, **resin**-bound **175453-25-5DP**, **resin**-bound **175453-27-7DP**, **resin**-bound
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(solid phase synthesis of thiazolidinones, metathiazanones, and their derivs. as peptidomimetics)

RN 159645-99-5 HCAPLUS

CN 3-Thiazolidineacetamide, N-[1-[4-(4-amino-4-oxobutoxy)-5-methoxy-2-nitrophenyl]ethyl]-2-(2,4-dimethoxyphenyl)-4-oxo- (9CI) (CA INDEX NAME)



RN 175453-21-1 HCAPLUS
CN 3-Thiazolidine-2-13C-acetamide, N-[1-[4-[4-[(2-amino-2-oxoethyl-1-13C)amino]-4-oxobutoxy]-5-methoxy-2-nitrophenyl]ethyl]-4-oxo-2-phenyl- (9CI) (CA INDEX NAME)



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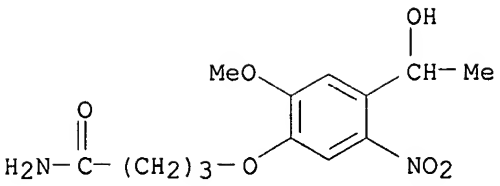
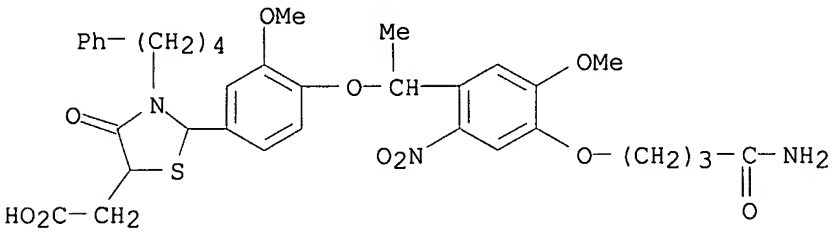
CN Butanamide, 4-[4-(1-hydroxyethyl)-2-methoxy-5-nitrophenoxy]- (9CI) (CA INDEX NAME)



RN 175453-27-7 HCAPLUS
CN 5-Thiazolidineacetic acid, 2-[4-[1-[4-(4-amino-4-oxobutoxy)-5-methoxy-2-nitrophenyl]ethoxy]-3-methoxyphenyl]-4-oxo-3-(4-phenylbutyl)- (9CI) (CA INDEX NAME)



L19 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1996:222237 HCAPLUS
DOCUMENT NUMBER: 124:261766
TITLE: Preparation of photolabile nitrophenol ethers as photocleavable??? **linking** groups in solid phase synthesis
INVENTOR(S): Holmes, Christopher
PATENT ASSIGNEE(S): Affymax Technologies N.V., Neth.
SOURCE: PCT Int. Appl., 61 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9600378	A1	19960104	WO 1995-US7985	19950623 <--
W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5549974	A	19960827	US 1994-265090	19940623 <--
US 5679773	A	19971021	US 1995-374492	19950117 <--
CA 2193228	AA	19960104	CA 1995-2193228	19950623 <--
AU 9529483	A1	19960119	AU 1995-29483	19950623 <--
AU 689924	B2	19980409		
EP 776330	A2	19970604	EP 1995-925303	19950623 <--
EP 776330	B1	20030820		
R: CH, DE, FR, GB, IT, LI, NL				

JP 10507160	T2	19980714	JP 1995-503349		19950623 <--
PRIORITY APPLN. INFO.:			US 1994-265090	A	19940623 <--
			US 1995-374492	A2	19950117 <--
			WO 1995-US7985	W	19950623 <--

OTHER SOURCE(S): MARPAT 124:261766
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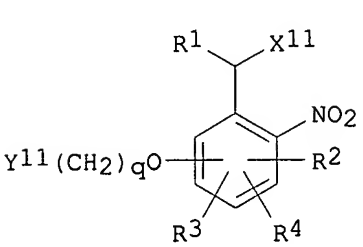

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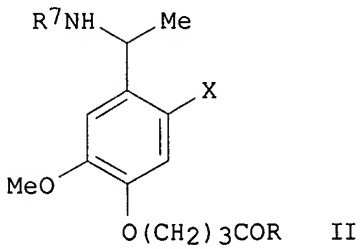
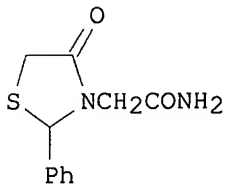
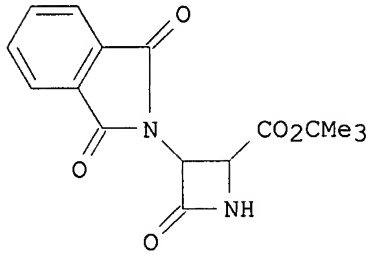


II



III



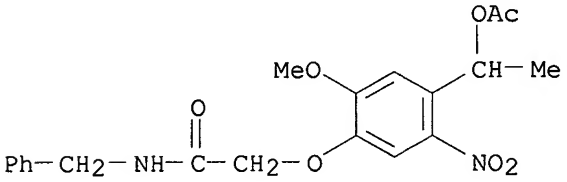
IV

AB The title compds. [I; R1 = H, alkyl, aryl, aralkyl; R2, R3, R4 = H, alkyl, alkoxy; X11, Y11 = H, SP, OH, OP, NH2, NHP, NR5R6; wherein P = a suitable protecting or activating group; R5, R6 = H, (un)substituted alkyl, aryl, or aralkyl, substituted heteroaryl; q = an integer 1-10], which are incorporated on the surface of a **solid support** to produce a derivatized **solid support** having attached photolabile **linking** groups at synthesis initiation sites and are useful for synthesizing small ligand mols. or peptides, are prepared Thus, acetovanilone was condensed with Me 4-bromobutyrate in the presence of K2CO3 in DMF to give Me 4-(4-acetyl-2-methoxyphenoxy)butanoate, which was oximated with hydroxylamine hydrochloride in aqueous pyridine at room temperature for 14 h to the oxime, Me 4-(1-hydroxyiminoethyl-2-methoxyphenoxy)butanoate, hydrogenated over 10% Pd-C in AcOH to the crude amine, Me 4-(1-aminoethyl-2-methoxyphenoxy)butanoate, and acylated by trifluoroacetic anhydride in pyridine at 0° for 1 h to give the intermediate (II; X = H, R = OMe, R7 = CF3CO) (80% overall yield from acetovanilone). The latter compound was nitrated by 70% HNO3 at 0° for 2 h to give the nitro compound II (X = NO2, R = OMe, R7 = CF3CO) (86% yield), which was saponified with a refluxing mixture of MeOH and 1 N aqueous NaOH for 5 h, cooled to room temperature, and concentrated to .apprx.100 mL, treated with aqueous dioxane, made pH 9 with 6 N HCl, treated with Fmoc-Cl and an addnl. portion of dioxane, adjusted to pH 8 with 1 N aqueous NaOH over the next 30 min to give the title compound II (X = NO2, R = OH, R7 = Fmoc) (81% yield). This was **linked** to TentaGel **resin** to give the **resin**-bound II (X = NO2, R = TentaGel **resin**, R7 = Fmoc),

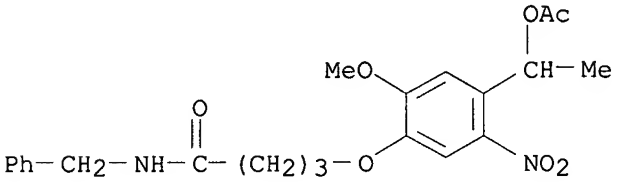
to which were sequentially condensed Fmoc-Phe-OH, Boc-Met-OH, Fmoc-Trp(Boc)-OH, Fmoc-Gly-OH, and Fmoc-Met-OH to give, after deprotection with piperidine to remove Fmoc group and with a mixture of CF3CO2H, phenol, water, thioanisole, and ethanethiol to remove side-chain protecting group, the **resin** bound peptide II (X = NO2, R = H-Met-Gly-Trp-Met-Asp-Phe-TentaGel). 50 Beads bearing the fully deprotected peptide were covered with a 1:1 solution of DMSO and PBS containing 0.1% hydrazine and irradiated for 1 h to give, the CCK peptide, H-Met-Gly-Trp-Met-Asp-Phe-NH2 (70% yield). Thiazolidinone (e.g. III) and azetidinone (β-lactam) (IV) were also prepared by the solid phase method using the same photolabile **linking** group.

IT **175281-73-9P 175281-74-0P 175281-75-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(photocleavable **linker**; preparation of photolabile nitrophenol ethers as photocleavable **linking** groups in solid phase synthesis of peptides and small ligand mols.)

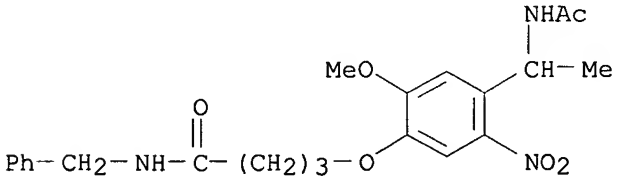
RN 175281-73-9 HCAPLUS
CN Acetamide, 2-[4-[1-(acetyloxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 175281-74-0 HCAPLUS
CN Butanamide, 4-[4-[1-(acetyloxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 175281-75-1 HCAPLUS
CN Butanamide, 4-[4-[1-(acetylamino)ethyl]-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



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=> d ibib abs hitstr l20 1-8

L20 ANSWER 1 OF 8 USPATFULL on STN

ACCESSION NUMBER:	2005:23972 USPATFULL
TITLE:	In vivo gene silencing by chemically modified and stable siRNA
INVENTOR(S):	Rana, Tariq M., Shrewsbury, MA, UNITED STATES
PATENT ASSIGNEE(S):	UNIVERSITY OF MASSACHUSETTS, Worcester, MA (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2005020521	A1	20050127	
APPLICATION INFO.:	US 2003-672069	A1	20030925	(10)

	NUMBER	DATE		
PRIORITY INFORMATION:	US 2002-413529P	20020925	(60)	<--
	US 2002-426982P	20021115	(60)	<--
	US 2003-458051P	20030326	(60)	<--
	US 2003-493095P	20030805	(60)	<--

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	LAHIVE & COCKFIELD, LLP., 28 STATE STREET, BOSTON, MA, 02109
NUMBER OF CLAIMS:	83
EXEMPLARY CLAIM:	1
NUMBER OF DRAWINGS:	42 Drawing Page(s)
LINE COUNT:	5638

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides compositions for RNA interference and methods of use thereof. In particular, the invention provides small interfering RNAs (siRNAs) having modification that enhance the stability of the siRNA without a concomitant loss in the ability of the siRNA to participate in RNA interference (RNAi). The invention also provides siRNAs having modification that increase targeting efficiency. Modifications include chemical **crosslinking** between the two complementary strands of an siRNA and chemical modification of a 3' terminus of a strand of an siRNA. Preferred modifications are internal modifications, for example, sugar modification, nucleobase modification and/or backbone modifications. Such modifications are also useful, e.g., to improve uptake of the siRNA by a cell. Functional and genomic and proteomic methods are featured. Therapeutic methods are also featured.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

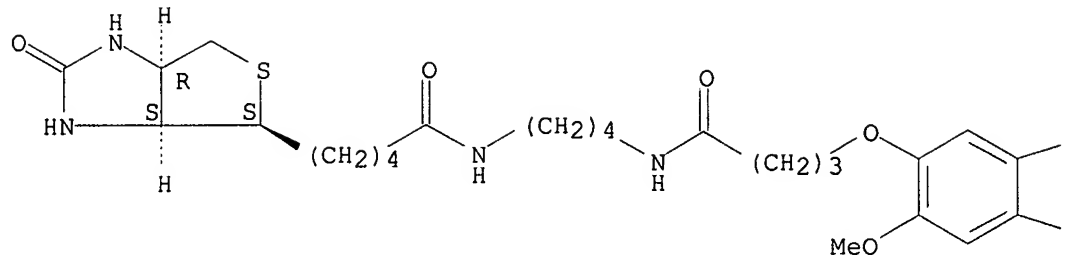
IT **676530-96-4D**, conjugates with siRNA 3'-terminus
(in vivo gene silencing by chemical modified and stable siRNA)

RN 676530-96-4 USPATFULL

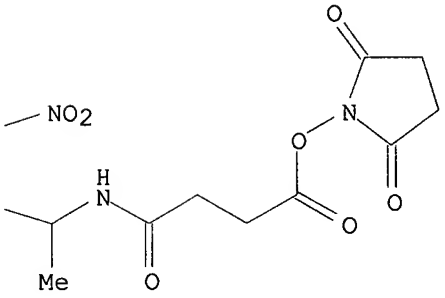
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[4-[[4-[4-[1-[[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1,4-dioxobutyl]amino]ethyl]-2-methoxy-5-nitrophenoxy]-1-oxobutyl]amino]butyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L20 ANSWER 2 OF 8 USPATFULL on STN

ACCESSION NUMBER:	2004:273701 USPATFULL			
TITLE:	Allele-targeted RNA interference			
INVENTOR(S):	Rana, Tariq M., Shrewsbury, MA, UNITED STATES			
PATENT ASSIGNEE(S):	UNIVERSITY OF MASSACHUSETTS, Worcester, MA (U.S. corporation)			
	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004214198	A1	20041028	
APPLICATION INFO.:	US 2003-715229	A1	20031117	(10)
	NUMBER	DATE		
PRIORITY INFORMATION:	US 2002-426982P	20021115 (60)		<--
	US 2002-430517P	20021126 (60)		<--
	US 2003-458051P	20030326 (60)		<--
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	LAHIVE & COCKFIELD, LLP., 28 STATE STREET, BOSTON, MA, 02109			
NUMBER OF CLAIMS:	34			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	4 Drawing Page(s)			
LINE COUNT:	1556			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

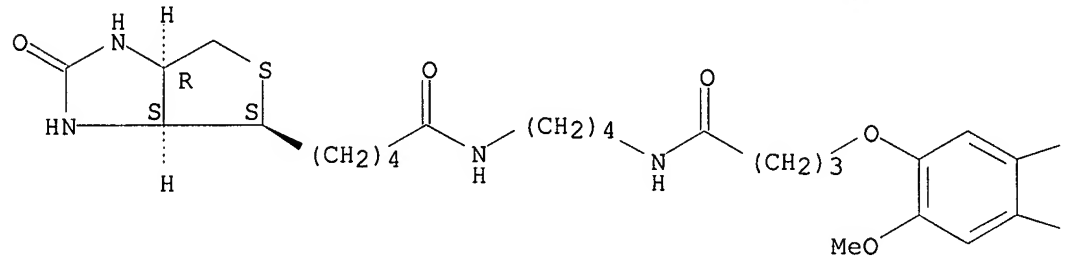
AB The present invention provides siRNAs with modified bases in the antisense strand, e.g., 5-Iodo-Uridine (U(5I)), 5-Bromo-uridine (U(5Br)), or DAP, and methods for using the modified siRNAs to

selectively down-regulate the expression of a mutant allele, even when the mutant mRNA differs from wild-type by only a single nucleotide.

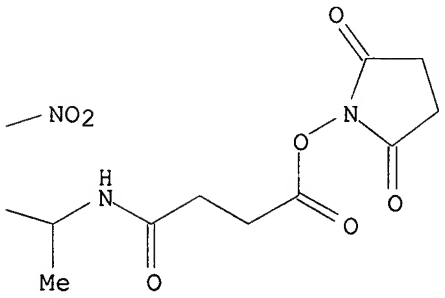
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **676530-96-4D**, conjugates with siRNA 3'-terminus
(in vivo gene silencing by chemical modified and stable siRNA)
RN 676530-96-4 USPATFULL
CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[4-[[4-[4-[1-[[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1,4-dioxobutyl]amino]ethyl]-2-methoxy-5-nitrophenoxy]-1-oxobutyl]amino]butyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L20 ANSWER 3 OF 8 USPATFULL on STN

ACCESSION NUMBER:	2001:67799 USPATFULL
TITLE:	Synthesis of hydroxamic acid derivatives
INVENTOR(S):	Floyd, Christopher David, Cowley, United Kingdom Lewis, Christopher Norman, Cowley, United Kingdom
PATENT ASSIGNEE(S):	British Biotech Pharmaceuticals, Ltd., Oxford, United Kingdom (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6228988	B1	20010508	<--
APPLICATION INFO.:	US 1999-328493		19990609 (9)	
RELATED APPLN. INFO.:	Division of Ser. No. US 1997-809499, filed on 24 Mar 1997, now patented, Pat. No. US 5932695 Continuation of Ser. No. WO 1996-GB428, filed on 26 Feb 1996			

	NUMBER	DATE	
PRIORITY INFORMATION:	GB 1995-3749	19950224	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Celsa, Bennett		
LEGAL REPRESENTATIVE:	Hale and Dorr LLP		
NUMBER OF CLAIMS:	14		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1175		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention describes processes for preparing desired synthetic products that comprise a covalently bonded hydroxamic acid group --CONHOH by forming a mixture of a liquid reaction medium and a solid phase reaction product that carries a plurality of moieties of formula (A1) or (B1): ##STR1##

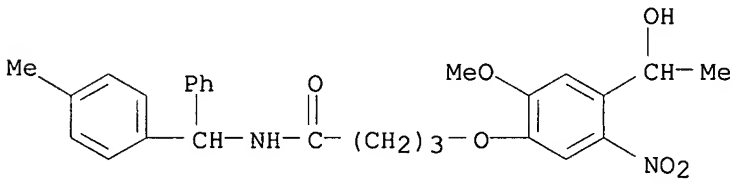
where X is a residual, non-hydroxamate partial structure of the desired synthetic product, P.sub.1 is hydrogen or an amino-protecting group, P.sub.2 is hydrogen or a hydroxyl protecting group, and the bond designated (a) covalently **links** the moieties (A1) or (B1) to the residue of a solid substrate; by cleaving the bond designated (a) in the resultant mixture; and by separating the resultant liquid reaction phase from the resultant reaction solids to recover the desired synthetic product.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **182297-46-7D**, polymer bound **182297-47-8D**, polymer bound
(synthesis of hydroxamic acid derivs. using solid supports functionalized with (protected) hydroxylamine)

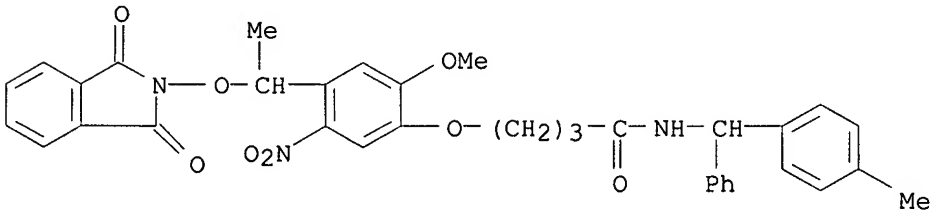
RN 182297-46-7 USPATFULL

CN Butanamide, 4-[4-(1-hydroxyethyl)-2-methoxy-5-nitrophenoxy]-N-[(4-methylphenyl)phenylmethyl]- (9CI) (CA INDEX NAME)

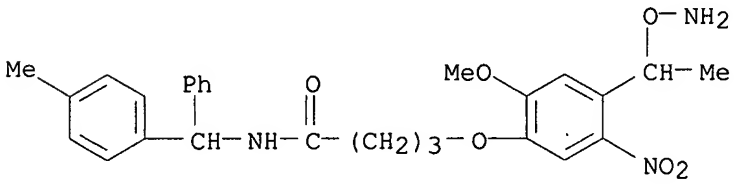


RN 182297-47-8 USPATFULL

CN Butanamide, 4-[4-[1-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)oxy]ethyl]-2-methoxy-5-nitrophenoxy]-N-[(4-methylphenyl)phenylmethyl]- (9CI) (CA INDEX NAME)



IT **182297-44-5DP**, polymer bound
(synthesis of hydroxamic acid derivs. using solid supports functionalized with (protected) hydroxylamine)
RN 182297-44-5 USPATFULL
CN Butanamide, 4-[4-[1-(aminooxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-[(4-methylphenyl)phenylmethyl]- (9CI) (CA INDEX NAME)



L20 ANSWER 4 OF 8 USPATFULL on STN

ACCESSION NUMBER:	2000:138494 USPATFULL
TITLE:	Process for the solid phase synthesis of aldehyde, ketone, oxime, amine, hydroxamic acid and αβ-unsaturated carboxylic acid and aldehyde compounds
INVENTOR(S):	Salvino, Joseph M., Schwenksville, PA, United States Morton, George C., Collegeville, PA, United States Mason, Helen J., Skillman, NJ, United States Labaudiniere, Richard F., Collegeville, PA, United States
PATENT ASSIGNEE(S):	Aventis Pharmaceuticals Products Inc., Collegeville, PA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6133409		20001017	<--
APPLICATION INFO.:	US 1998-103872		19980624 (9)	

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 1997-US23920, filed on 17 Dec 1997 And a continuation-in-part of Ser. No. US 1997-928943, filed on 12 Sep 1997 which is a continuation of Ser. No. WO 1997-US264, filed on 2 Jan 1997

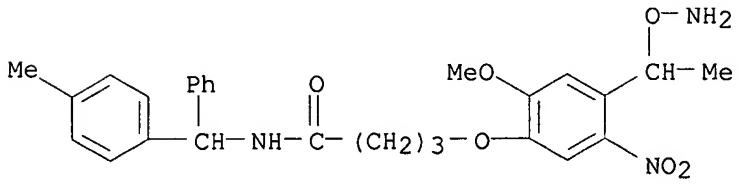
DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Geist, Gary
ASSISTANT EXAMINER:	Davis, Brian J.
LEGAL REPRESENTATIVE:	Oehler, Ross J.
NUMBER OF CLAIMS:	44
EXEMPLARY CLAIM:	1
LINE COUNT:	3195

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention is directed to a process for the solid phase synthesis of aldehyde, ketone, oxime, amine, hydroxamic acid and α,β-unsaturated carboxylic acid and aldehyde compounds and to polymeric hydroxylamine **resin** compounds useful therefor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **182297-44-5D**, resin bound
(process for the solid phase synthesis of aldehyde, ketone, oxime, amine, hydroxamic acid, and α,β-unsatd. carboxylic acid and aldehyde compds.)

RN 182297-44-5 USPATFULL
CN Butanamide, 4-[4-[1-(aminooxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-[(4-methylphenyl)phenylmethyl]- (9CI) (CA INDEX NAME)



L20 ANSWER 5 OF 8 USPATFULL on STN

ACCESSION NUMBER:	2000:95097 USPATFULL
TITLE:	Synthesis of hydroxamic acid derivatives
INVENTOR(S):	Floyd, Christopher David, Cowley, United Kingdom Lewis, Christopher Norman, Cowley, United Kingdom
PATENT ASSIGNEE(S):	British Biotech Pharmaceuticals Limited, Oxford, United Kingdom (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6093798		20000725	<--
APPLICATION INFO.:	US 1999-328492		19990609 (9)	
RELATED APPLN. INFO.:	Division of Ser. No. US 809499			

	NUMBER	DATE	
PRIORITY INFORMATION:	GB 1995-3749	19950224	<--

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Celsa, Bennett
LEGAL REPRESENTATIVE:	Hale and Dorr LLP
NUMBER OF CLAIMS:	10
EXEMPLARY CLAIM:	1
LINE COUNT:	1144

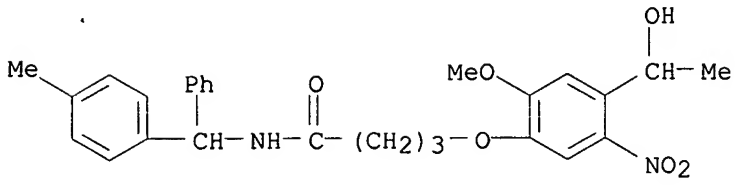
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention describes solid phase reaction products of a solid substrate carrying a plurality of covalently bound hydroxylamine or protected hydroxylamine groups of formula (A) or (B): ##STR1## where P.sub.1 is hydrogen or an amino protecting group, P.sub.2 is hydrogen or a hydroxyl protecting group, and the bond designated (a) covalently **links** the formula (A) or (B) to the residue of the solid substrate, and is cleavable under acid conditions or by photolysis. The solid phase reaction products can be used for the synthesis of hydroxamic acid derivatives or a combinatorial library of such compounds.

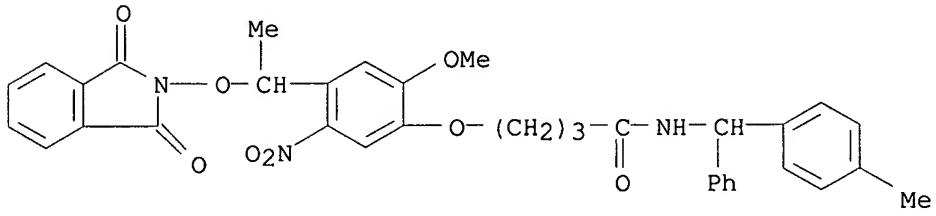
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **182297-46-7D**, polymer bound **182297-47-8D**, polymer bound
(synthesis of hydroxamic acid derivs. using solid supports functionalized with (protected) hydroxylamine)

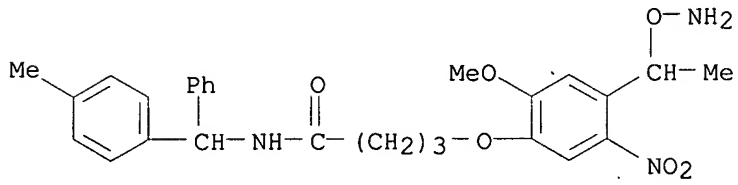
RN 182297-46-7 USPATFULL
CN Butanamide, 4-[4-(1-hydroxyethyl)-2-methoxy-5-nitrophenoxy]-N-[(4-methylphenyl)phenylmethyl]- (9CI) (CA INDEX NAME)



RN 182297-47-8 USPATFULL
CN Butanamide, 4-[4-[1-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)oxy]ethyl]-2-methoxy-5-nitrophenoxy]-N-[(4-methylphenyl)phenylmethyl]- (9CI) (CA INDEX NAME)



IT **182297-44-5DP**, polymer bound
(synthesis of hydroxamic acid derivs. using solid supports functionalized with (protected) hydroxylamine)
RN 182297-44-5 USPATFULL
CN Butanamide, 4-[4-[1-(aminooxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-[(4-methylphenyl)phenylmethyl]- (9CI) (CA INDEX NAME)



L20 ANSWER 6 OF 8 USPATFULL on STN
ACCESSION NUMBER: 1999:89271 USPATFULL
TITLE: Synthesis of hydroxamic acid derivatives
INVENTOR(S): Floyd, Christopher David, Oxford, United Kingdom
Lewis, Christopher Norman, Oxford, United Kingdom
PATENT ASSIGNEE(S): British Biotech Pharmaceuticals Ltd., Oxford, United Kingdom (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5932695		19990803	<--
	WO 9626223		19960829	<--
APPLICATION INFO.:	US 1997-809499		19970324	(8)
	WO 1996-GB428		19960226	
			19970324	PCT 371 date
			19970324	PCT 102(e) date

	NUMBER	DATE	
PRIORITY INFORMATION:	GB 1995-3749	19950224	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Celsa, Bennett		
LEGAL REPRESENTATIVE:	Hale and Dorr LLP		
NUMBER OF CLAIMS:	12		
EXEMPLARY CLAIM:	1		
LINE COUNT:	1158		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

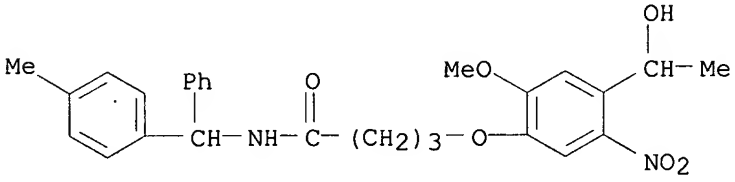
AB This invention is direct to a solid phase reaction product of a solid substrate carrying a plurality of covalently bound hydroxylamine or protected hydroxylamine groups. The solid solid phase reaction product may be used for the synthesis of hydroxamic acid derivatives or a combinatorial library of such compounds.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **182297-46-7D**, polymer bound **182297-47-8D**, polymer bound
(synthesis of hydroxamic acid derivs. using solid supports functionalized with (protected) hydroxylamine)

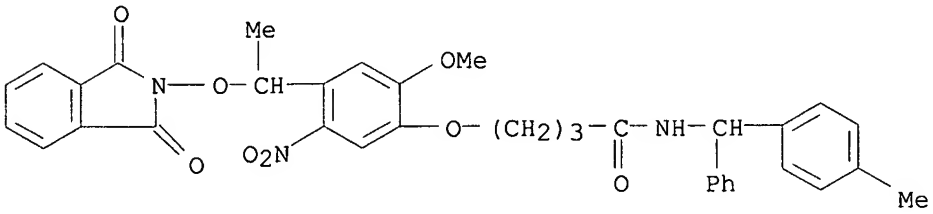
RN 182297-46-7 USPATFULL

CN Butanamide, 4-[4-(1-hydroxyethyl)-2-methoxy-5-nitrophenoxy]-N-[(4-methylphenyl)phenylmethyl]- (9CI) (CA INDEX NAME)



RN 182297-47-8 USPATFULL

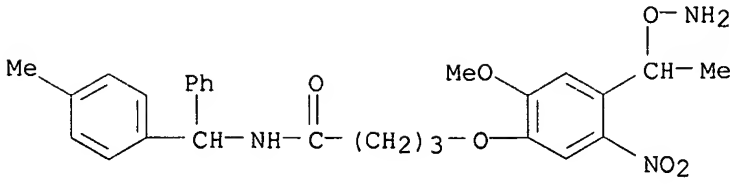
CN Butanamide, 4-[4-[1-[(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)oxy]ethyl]-2-methoxy-5-nitrophenoxy]-N-[(4-methylphenyl)phenylmethyl]- (9CI) (CA INDEX NAME)



IT **182297-44-5DP**, polymer bound
(synthesis of hydroxamic acid derivs. using solid supports functionalized with (protected) hydroxylamine)

RN 182297-44-5 USPATFULL

CN Butanamide, 4-[4-[1-(aminooxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-[(4-methylphenyl)phenylmethyl]- (9CI) (CA INDEX NAME)

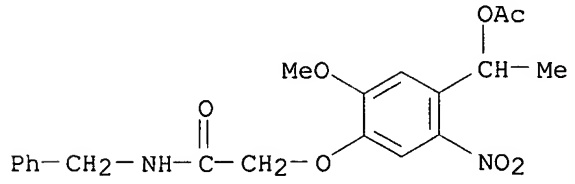


L20 ANSWER 7 OF 8 USPATFULL on STN
ACCESSION NUMBER: 97:96961 USPATFULL
TITLE: Reagants and methods for immobilized polymer synthesis and display
INVENTOR(S): Holmes, Christopher P., Sunnyvale, CA, United States
PATENT ASSIGNEE(S): Affymax Technologies N.V, Greenford, United Kingdom (non-U.S. corporation)

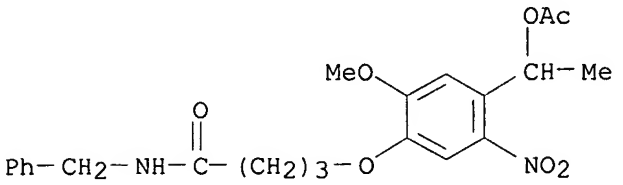
	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5679773		19971021	<--
APPLICATION INFO.:	US 1995-374492		19950117 (8)	

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Tsang, Cecilia J.
ASSISTANT EXAMINER: Lukton, David
LEGAL REPRESENTATIVE: Kezer, William B., Stevens, Lauren L.
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 1595
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Compounds and methods for solid phase synthesis of organic molecules including peptides, oligonucleotides, benzodiazepines, β-turn mimetics, and prostaglandins. The present invention provides new reagents in the form of **linking** groups and **resins** and substrates having attached **linking** groups which are useful in solid phase synthesis of high density arrays of organic molecules. The invention also provides methods which increase yields of various organic synthesis strategies.

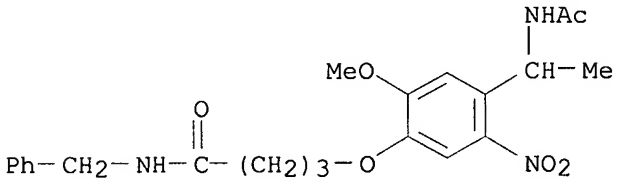
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **175281-73-9P 175281-74-0P 175281-75-1P**
(photocleavable linker; preparation of photolabile nitrophenol ethers as photocleavable linking groups in solid phase synthesis of peptides and small ligand mols.)
RN 175281-73-9 USPATFULL
CN Acetamide, 2-[4-[1-(acetyloxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 175281-74-0 USPATFULL
CN Butanamide, 4-[4-[1-(acetyloxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 175281-75-1 USPATFULL
CN Butanamide, 4-[4-[1-(acetylamino)ethyl]-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



L20 ANSWER 8 OF 8 USPATFULL on STN
ACCESSION NUMBER: 96:77631 USPATFULL
TITLE: Methods for the solid phase synthesis of thiazolidinones, metathiazanones, and derivatives thereof
INVENTOR(S): Holmes, Christopher P., Sunnyvale, CA, United States
PATENT ASSIGNEE(S): AFFYMAX Technologies NV, Curacao, Netherlands Antilles (non-U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 5549974		19960827	<--
APPLICATION INFO.:	US 1994-265090		19940623	(8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Datlow, Philip I.
ASSISTANT EXAMINER: Wong, King Lit
LEGAL REPRESENTATIVE: Stevens, Lauren L.
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 28 Drawing Figure(s); 18 Drawing Page(s)
LINE COUNT: 2054
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides an efficient and versatile method for the combinatorial synthesis and screening of libraries of 4-thiazolidinones, metathiazanones, and derivatives thereof. In order to expediently synthesize a combinatorial library of derivatives based upon these core structures, a general methodology for the solid phase synthesis of these derivatives is also provided. Arrays of thiazolidinones, metathiazanones, and derivatives thereof useful as peptidomimetics and

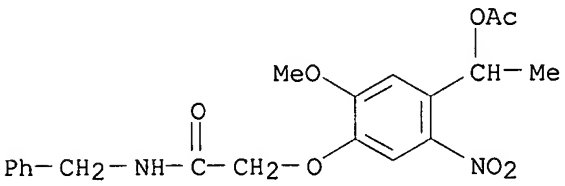
for the identification of agents having antifungal, antihistaminic, or antimicrobial activity or use in the treatment of inflammation, hypertension, renal failure, congestive heart failure, uremia and other conditions can be prepared using this method.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **175281-73-9P 175281-74-0P 175281-75-1P**
(photocleavable linker; preparation of photolabile nitrophenol ethers as photocleavable linking groups in solid phase synthesis of peptides and small ligand mols.)

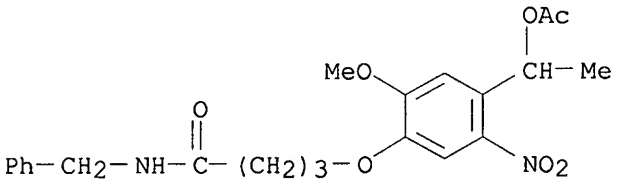
RN 175281-73-9 USPATFULL

CN Acetamide, 2-[4-[1-(acetyloxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



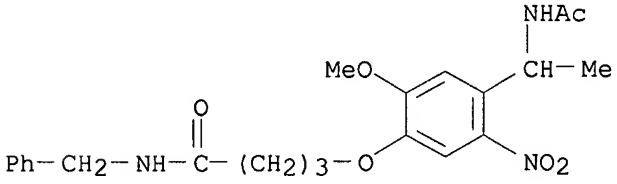
RN 175281-74-0 USPATFULL

CN Butanamide, 4-[4-[1-(acetyloxy)ethyl]-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



RN 175281-75-1 USPATFULL

CN Butanamide, 4-[4-[1-(acetylamino)ethyl]-2-methoxy-5-nitrophenoxy]-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



=> d ibib abs hitstr l7 1-3

L7 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:394694 HCAPLUS
DOCUMENT NUMBER: 142:407215
TITLE: Enrichment and tagging of glycosylated proteins
INVENTOR(S): **Robotti, Karla M.**
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 11 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005095647	A1	20050505	US 2003-699449	20031031
PRIORITY APPLN. INFO.:			US 2003-699449	20031031

AB A method useful in the anal. of glycosylated proteins, in which a mixture containing glycosylated proteins and unglycosylated proteins is contacted with a resin that includes a **nucleophile** bound to a solid support via a linker. The contacting is performed under conditions sufficient to result in removal of the glycosyl group from the glycosylated proteins and to concomitantly result in the deglycosylated proteins covalently bound to the solid support. The deglycosylated proteins bound to the solid support may be rinsed to remove proteins that are not covalently bound to the solid support. The deglycosylated proteins are released from the solid support and may be subjected to further purification and/or anal.

IT **107-95-9**, β-Alanine
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(enrichment and tagging of glycosylated proteins)

RN 107-95-9 HCAPLUS
CN β-Alanine (6CI, 8CI, 9CI) (CA INDEX NAME)

$H_2N-CH_2-CH_2-CO_2H$

L7 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:485873 HCAPLUS
DOCUMENT NUMBER: 141:35983
TITLE: Universal reagent for isotopically tagging peptides
INVENTOR(S): **Robotti, Karla M.**; Apffel, James Alexander, Jr.
PATENT ASSIGNEE(S): Agilent Technologies, Inc., USA
SOURCE: Eur. Pat. Appl., 28 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1429147	A1	20040616	EP 2003-257854	20031215
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				

US 2004115821 A1 20040617 US 2002-318845 20021213
PRIORITY APPLN. INFO.: US 2002-318845 A 20021213
OTHER SOURCE(S): MARPAT 141:35983

AB Compds., compns., methods for sequencing proteins and peptides, and methods for identifying proteins and peptides in a mixture, are disclosed. Compds. of formula A-B-C wherein A is a **nucleophilic** reactive group, B is a detectable moiety capable of being isotopically labeled, and C is a charge replacement group, are used to label the peptides at the N-terminus or the C-terminus. The tagged peptides can then be analyzed by mass spectroscopy.

IT **7782-39-0**, Deuterium, uses **10028-17-8**, Tritium, uses **10043-66-0**, Iodine 131, uses **13965-97-4**, Sulfur 34, uses **13981-43-6**, Chlorine 36, uses **13981-73-2**, Chlorine 37, uses **14158-31-7**, Iodine 125, uses **14380-59-7**, Bromine 81, uses **14390-96-6**, Nitrogen 15, uses **14596-37-3**, Phosphorus 32, uses **14762-74-4**, Carbon 13, uses **14762-75-5**, Carbon 14, uses **14797-71-8**, Oxygen 18, uses **15117-53-0**, Sulfur 35, uses **15715-08-9**, Iodine 123, uses
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(universal reagent for isotopically tagging peptides)

RN 7782-39-0 HCAPLUS
CN Deuterium (7CI, 8CI, 9CI) (CA INDEX NAME)

D—D

RN 10028-17-8 HCAPLUS
CN Tritium (8CI, 9CI) (CA INDEX NAME)

T—T

RN 10043-66-0 HCAPLUS
CN Iodine, isotope of mass 131, at. (8CI, 9CI) (CA INDEX NAME)

^{131}I

RN 13965-97-4 HCAPLUS
CN Sulfur, isotope of mass 34 (8CI, 9CI) (CA INDEX NAME)

^{34}S

RN 13981-43-6 HCAPLUS
CN Chlorine, isotope of mass 36, at. (8CI, 9CI) (CA INDEX NAME)

^{36}Cl

RN 13981-73-2 HCAPLUS
CN Chlorine, isotope of mass 37, at. (8CI, 9CI) (CA INDEX NAME)

^{37}Cl

RN 14158-31-7 HCAPLUS
CN Iodine, isotope of mass 125, at. (8CI, 9CI) (CA INDEX NAME)

^{125}I

RN 14380-59-7 HCAPLUS
CN Bromine, isotope of mass 81, at. (8CI, 9CI) (CA INDEX NAME)

^{81}Br

RN 14390-96-6 HCAPLUS
CN Nitrogen, isotope of mass 15, at. (8CI, 9CI) (CA INDEX NAME)

^{15}N

RN 14596-37-3 HCAPLUS
CN Phosphorus, isotope of mass 32 (8CI, 9CI) (CA INDEX NAME)

^{32}P

RN 14762-74-4 HCAPLUS
CN Carbon, isotope of mass 13 (8CI, 9CI) (CA INDEX NAME)

^{13}C

RN 14762-75-5 HCAPLUS
CN Carbon, isotope of mass 14 (8CI, 9CI) (CA INDEX NAME)

^{14}C

RN 14797-71-8 HCAPLUS
CN Oxygen, isotope of mass 18, at. (8CI, 9CI) (CA INDEX NAME)

^{18}O

RN 15117-53-0 HCAPLUS
CN Sulfur, isotope of mass 35 (8CI, 9CI) (CA INDEX NAME)

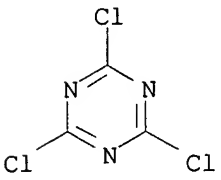
^{35}S

RN 15715-08-9 HCAPLUS
CN Iodine, isotope of mass 123, at. (8CI, 9CI) (CA INDEX NAME)

^{123}I

IT **108-77-0**, 2,4,6-Trichloro-s-triazine **557-66-4**, Ethylamine hydrochloride **2002-24-6**, Ethanolamine hydrochloride **7087-68-5**, n, n-Diisopropylethylamine **10256-43-6** **17616-24-9**, Ethyl-d5-amine **58822-25-6**, Leucine enkephalin **74124-79-1**, n,n'-Disuccinimidyl carbonate **85047-08-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(universal reagent for isotopically tagging peptides)

RN 108-77-0 HCAPLUS
CN 1,3,5-Triazine, 2,4,6-trichloro- (9CI) (CA INDEX NAME)



RN 557-66-4 HCAPLUS
CN Ethanamine, hydrochloride (9CI) (CA INDEX NAME)

$H_3C-CH_2-NH_2$

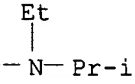
● HCl

RN 2002-24-6 HCAPLUS
CN Ethanol, 2-amino-, hydrochloride (8CI, 9CI) (CA INDEX NAME)

$H_2N-CH_2-CH_2-OH$

● HCl

RN 7087-68-5 HCAPLUS
CN 2-Propanamine, N-ethyl-N-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 10256-43-6 HCAPLUS
CN Ethanaminium, 2-amino-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

$Me_3^+N-CH_2-CH_2-NH_2$

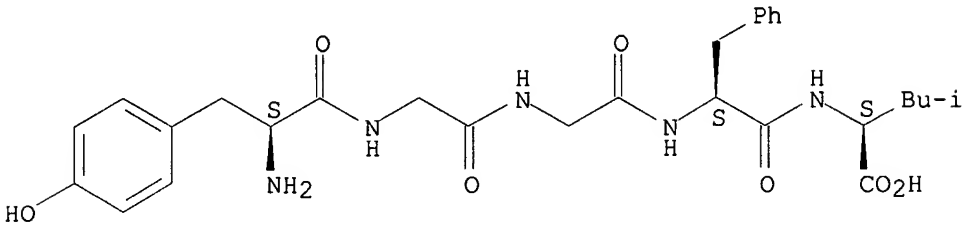
● Cl^-

RN 17616-24-9 HCAPLUS
CN Ethan-d5-amine (9CI) (CA INDEX NAME)

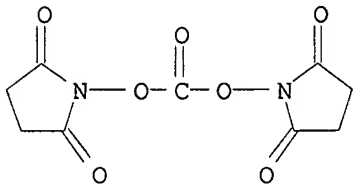
$H_2N-CD_2-CD_3$

RN 58822-25-6 HCAPLUS
CN 1-5-β-Neoendorphin (human) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



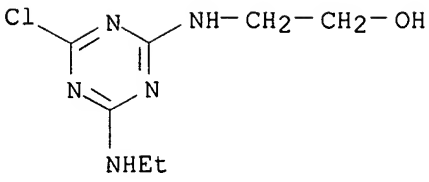
RN 74124-79-1 HCAPLUS
CN 2,5-Pyrrolidinedione, 1,1'-[carbonylbis(oxy)]bis- (9CI) (CA INDEX NAME)



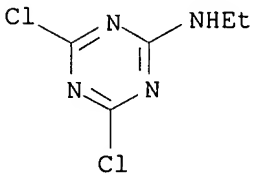
RN 85047-08-1 HCAPLUS
CN Ethan-1,1,2,2-d4-ol, 2-amino- (9CI) (CA INDEX NAME)

$H_2N-CD_2-CD_2-OH$

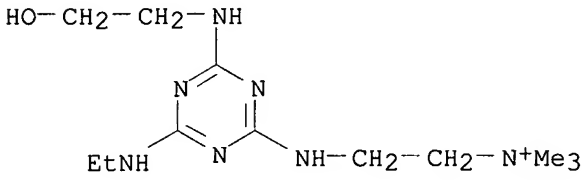
IT **2904-52-1P 3440-19-5P**, 2-Ethylamino-4,6-Dichloro-s-Triazine **701935-56-0P 701935-57-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(universal reagent for isotopically tagging peptides)
RN 2904-52-1 HCAPLUS
CN Ethanol, 2-[[4-chloro-6-(ethylamino)-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)



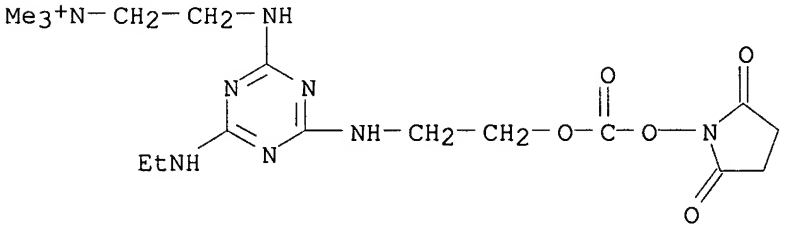
RN 3440-19-5 HCAPLUS
CN 1,3,5-Triazin-2-amine, 4,6-dichloro-N-ethyl- (9CI) (CA INDEX NAME)



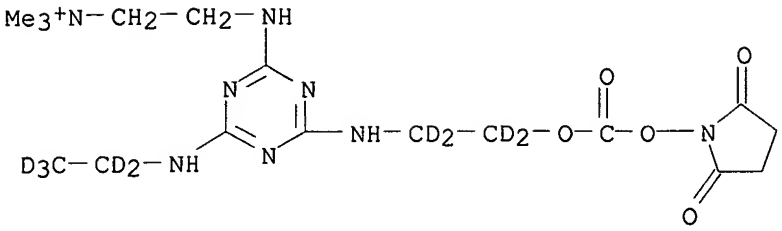
RN 701935-56-0 HCAPLUS
CN Ethanaminium, 2-[[4-(ethylamino)-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)



RN 701935-57-1 HCAPLUS
CN Ethanaminium, 2-[[4-[[2-[[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]oxy]ethyl]amino]-6-(ethylamino)-1,3,5-triazin-2-yl]amino]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)



IT **701935-58-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(universal reagent for isotopically tagging peptides)
RN 701935-58-2 HCAPLUS
CN Ethanaminium, 2-[[4-[[2-[[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]oxy]ethyl-1,1,2,2-d4]amino]-6-(ethyl-d5-amino)-1,3,5-triazin-2-yl]amino]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

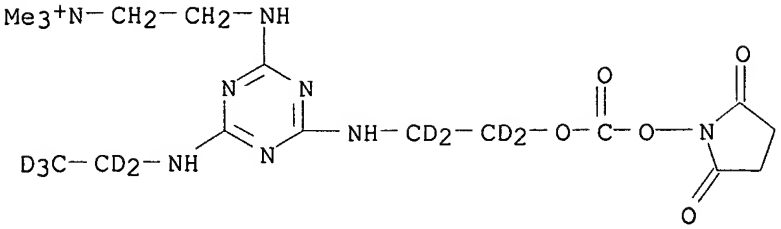
L7 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:485872 HCAPLUS
DOCUMENT NUMBER: 141:35982
TITLE: Proteomic analysis
INVENTOR(S): Apffel, James Alexander, Jr.; **Robotti, Karla M.**
PATENT ASSIGNEE(S): Agilent Technologies, Inc., USA
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1429146	A1	20040616	EP 2003-257853	20031215
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005100956	A1	20050512	US 2002-318475	20021213
PRIORITY APPLN. INFO.:			US 2002-318475 A	20021213

OTHER SOURCE(S): MARPAT 141:35982

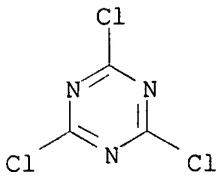
AB The present invention provides methods for analyzing a peptide or peptides of interest in a protein sample using a combination of a relatively generic isotope tag with a decoupled selection process, allowing simplified customization of the application with a single reagent. These methods comprise providing a first and a second protein sample; labeling the first protein sample with a first Universal Peptide Isotope Tag (U-PIT) reagent and the second protein sample with a second U-PIT reagent; separating the peptide of interest from the combined first and second protein samples; and determining the relative amount of the first U-PIT reagent and the second U-PIT reagent bound to the peptide or peptides of interest. The U-PIT label of the present inventive methods has the following general formula: A-B-C wherein A is a **nucleophilic** reactive group, B is a detectable moiety that can be isotopically labeled, and C is a charge replacement group.

IT **701935-58-2**
RL: ANT (Analyte); ANST (Analytical study)
(proteomic anal.)
RN 701935-58-2 HCAPLUS
CN Ethanaminium, 2-[[4-[[2-[[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]oxy]ethyl-1,1,2,2-d4]amino]-6-(ethyl-d5-amino)-1,3,5-triazin-2-yl]amino]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)

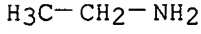


IT **108-77-0**, 2,4,6-Trichloro-s-triazine **557-66-4**, Ethylamine hydro chloride **2002-24-6**, Ethanolamine hydro chloride **10256-43-6 17616-24-9**, Ethyl-d5-amine **58822-25-6**, Leucine enkephalin **74124-79-1**, N,N'-Disuccinimidyl carbonate **85047-08-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(proteomic anal.)

RN 108-77-0 HCAPLUS
CN 1,3,5-Triazine, 2,4,6-trichloro- (9CI) (CA INDEX NAME)

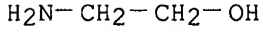


RN 557-66-4 HCAPLUS
CN Ethanamine, hydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 2002-24-6 HCAPLUS
CN Ethanol, 2-amino-, hydrochloride (8CI, 9CI) (CA INDEX NAME)



● HCl

RN 10256-43-6 HCAPLUS
CN Ethanaminium, 2-amino-N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)

$Me_3^+N-CH_2-CH_2-NH_2$

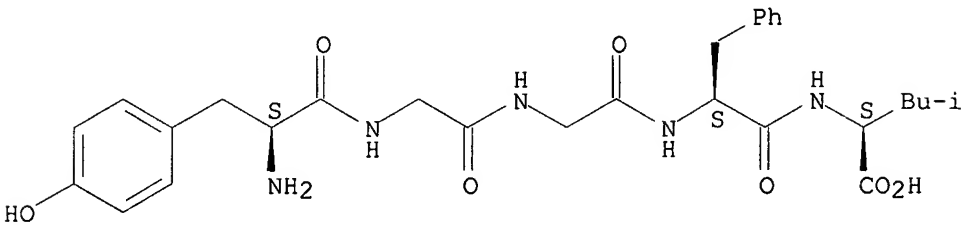
● Cl^-

RN 17616-24-9 HCAPLUS
CN Ethan-d5-amine (9CI) (CA INDEX NAME)

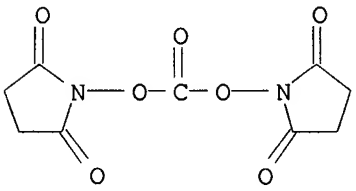
$H_2N-CD_2-CD_3$

RN 58822-25-6 HCAPLUS
CN 1-5-β-Neoendorphin (human) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



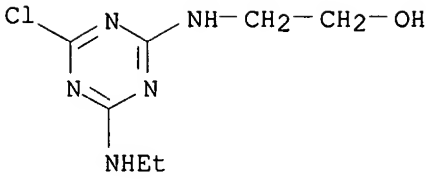
RN 74124-79-1 HCAPLUS
CN 2,5-Pyrrolidinedione, 1,1'-[carbonylbis(oxy)]bis- (9CI) (CA INDEX NAME)



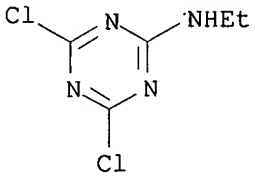
RN 85047-08-1 HCAPLUS
CN Ethan-1,1,2,2-d4-ol, 2-amino- (9CI) (CA INDEX NAME)

$H_2N-CD_2-CD_2-OH$

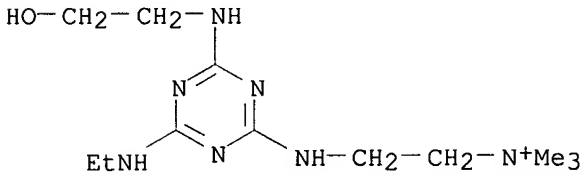
IT **2904-52-1P 3440-19-5P**, 2-Ethylamino-4,6-Dichloro-s-Triazine **701935-56-0P 701935-57-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(proteomic anal.)
RN 2904-52-1 HCAPLUS
CN Ethanol, 2-[[4-chloro-6-(ethylamino)-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)



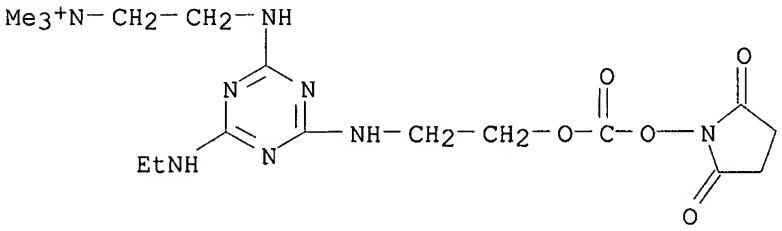
RN 3440-19-5 HCAPLUS
CN 1,3,5-Triazin-2-amine, 4,6-dichloro-N-ethyl- (9CI) (CA INDEX NAME)



RN 701935-56-0 HCAPLUS
CN Ethanaminium, 2-[[4-(ethylamino)-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)



RN 701935-57-1 HCAPLUS
CN Ethanaminium, 2-[[4-[[2-[[[(2,5-dioxo-1-pyrrolidinyl)oxy]carbonyl]oxy]ethyl]amino]-6-(ethylamino)-1,3,5-triazin-2-yl]amino]-N,N,N-trimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT